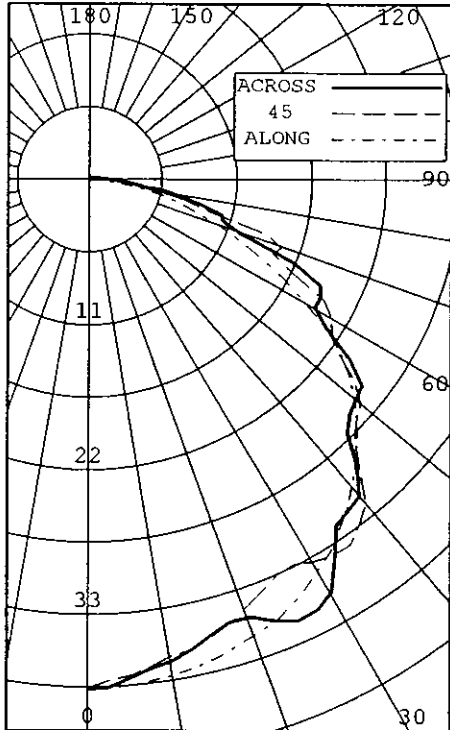


CERTIFIED TEST REPORT No. 24806

DDP - 12" LED COVEWASH LUMINAIRE, CAT# LS-12-63K
 WITH WHITE INTERIOR AND CLEAR PLASTIC TUBE LENS
 10 LEDS. LUMINAIRE LUMEN OUTPUT = 123 LMS.
 FIXTURE OPERATING AT 24 VDC AND 2.9 WATTS

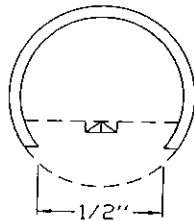
INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG 22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	39	39	39	39	
5	39	38	38	38	4
15	38	36	36	36	10
25	36	34	33	36	16
35	32	30	34	33	20
45	28	26	28	28	21
55	23	24	22	24	21
65	14	15	16	19	16
75	7	8	9	10	10
85	1	3	4	3	4
90	0	1	2	1	1
95	0	0	1	1	1
105	0	0	0	0	0
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	29	24.31	24.31
0-40	49	40.70	40.70
0-60	92	75.05	75.05
0-90	122	99.37	99.37
40-90	72	58.67	58.67
60-90	29	24.32	24.32
90-180	0	0.63	0.63
0-180	122	100.00	100.00

** EFFICACY: 42.4 LUMENS/WATT **



LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	10953	10878	10605
55	10882	10801	11370
65	9212	10736	12358
75	7787	10024	10914
85	3670	11803	9853

CERTIFIED BY:

Jon Lavin
 PREPARED FOR:

DATE:
 FEB 3, 2009

DDP
 EL SEGUNDO, CA.

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.
 7826 E. EVANS RD.
 SCOTTSDALE, AZ, USA 85260

CERTIFIED TEST REPORT No. 24806

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD./SQ.M.			ACROSS
		22.5	45	67.5	
0	10641(3105)	10641(3105)	10641(3105)	10641(3105)	10641(3105)
30	10841(3164)	10255(2993)	10665(3112)	11401(3327)	11459(3344)
40	10883(3176)	10021(2924)	11512(3360)	10960(3198)	11244(3282)
45	10953(3197)	10328(3014)	10878(3174)	11088(3236)	10605(3095)
50	10971(3202)	11327(3306)	11294(3296)	10785(3147)	11065(3229)
55	10882(3176)	11717(3419)	10801(3152)	11652(3401)	11370(3318)
60	10168(2967)	11059(3227)	11407(3329)	10758(3139)	10626(3101)
65	9212(2688)	10052(2933)	10736(3133)	12187(3557)	12358(3606)
70	8408(2454)	9352(2729)	12188(3557)	11391(3324)	9606(2803)
75	7787(2272)	8648(2524)	10024(2925)	10832(3161)	10914(3185)
80	6925(2021)	9445(2756)	12124(3538)	10940(3193)	9614(2806)
85	3670(1071)	9918(2894)	11803(3445)	10547(3078)	9853(2875)

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 FIXTURE OPERATING AT 24 VDC AND 2.9 WATTS

INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS		
0	39	39	39	39	39	39	
5	39	38	38	38	38	38	4
10	38	37	37	37	37	37	
15	38	36	36	36	36	36	10
20	37	35	34	34	35	35	
25	36	34	33	36	37	35	16
30	34	32	33	36	36	34	
35	32	30	34	33	32	32	20
40	30	28	32	30	31	30	
45	28	26	28	28	27	28	21
50	26	26	26	25	26	26	
55	23	24	22	24	24	24	21
60	18	20	21	19	19	20	
65	14	15	16	19	19	17	16
70	10	12	15	14	12	13	
75	7	8	9	10	10	9	10
80	4	6	8	7	6	6	
85	1	3	4	3	3	3	4
90	0	1	2	1	1	1	
95	0	0	1	1	1	0	1
100	0	0	0	0	0	0	
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																									
0	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	1.061	.061	.06	1.011	.011	.01	0.99			
1	1.111	.061	.010	.97	1.081	.030	.990	.95	1.061	.010	.970	.93	0.970	.930	.90	0.930	.900	.88	0.890	.870	.85	0.83			
2	1.010	.930	.860	.79	0.990	.910	.840	.78	0.960	.890	.820	.77	0.850	.800	.75	0.820	.770	.73	0.790	.750	.72	0.70			
3	0.920	.810	.720	.66	0.900	.790	.710	.65	0.870	.780	.700	.64	0.750	.690	.63	0.720	.670	.62	0.700	.650	.61	0.59			
4	0.850	.720	.630	.56	0.830	.710	.620	.56	0.810	.700	.620	.55	0.670	.600	.54	0.650	.590	.54	0.620	.570	.53	0.51			
5	0.780	.640	.550	.48	0.760	.630	.540	.47	0.740	.620	.530	.47	0.600	.520	.47	0.580	.510	.46	0.560	.500	.45	0.43			
6	0.720	.570	.480	.41	0.700	.560	.470	.41	0.680	.550	.470	.41	0.530	.460	.40	0.520	.450	.40	0.500	.440	.39	0.37			
7	0.650	.510	.420	.36	0.640	.500	.410	.35	0.620	.490	.410	.35	0.480	.400	.35	0.460	.390	.34	0.450	.390	.34	0.32			
8	0.610	.460	.370	.31	0.590	.450	.370	.31	0.580	.450	.360	.31	0.430	.360	.31	0.420	.350	.30	0.410	.350	.30	0.28			
9	0.560	.420	.330	.27	0.550	.410	.330	.27	0.530	.410	.330	.27	0.390	.320	.27	0.380	.310	.27	0.370	.310	.26	0.24			
10	0.520	.380	.290	.24	0.510	.380	.290	.24	0.500	.370	.290	.24	0.360	.290	.24	0.350	.280	.23	0.340	.280	.23	0.22			

LUMINAIRE INPUT WATTS = 2.9

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
 LUMINOUS OPENING OF LUMINAIRE.